

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 March 2004 (11.03.2004)

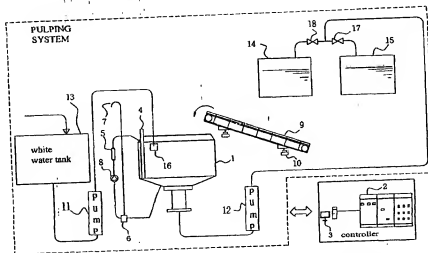
PCT

(10) International Publication Number
WO 2004/020733 A1

- (51) International Patent Classification⁷: D21C 5/02, D21B 1/08
- (21) International Application Number: PCT/KR2002/001655
- (22) International Filing Date: 2 September 2002 (02.09.2002)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): GKP TECHNOLOGIES, INC. [KR/KR]; 2F, Hanmala Bldg., 920-9, Daechi 4-Dong, Kangnam-Ku, 135-284 Seoul (KR).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): CHUNG, Sun-Ho [KR/KR]; 149 Shinga-Ri, Seonghwan-Eub, Cheonan-Si, 330-800 Chungcheongnam-Do (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published: with international search report

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR AUTOMATICALLY DEFIBERING AND EXTRACTING KRAFT PULP FROM OLD CORRUGATED CARDBOARD



(57) **Abstract:** The present invention relates to an apparatus and method for automatically defibering and extracting kraft pulp from old corrugated cardboards. The apparatus includes a) a pulper (1) for crushing, separating and defibering old corrugated cardboards and outputting using white water; b) a first means for continuously detecting defibering states of old corrugated cardboard pieces and outputting detected data; c) a second means for selectively exhausting defibered corrugated medium and linerboard from the pulper; d) a third means for respectively estimating first and second target values indicative of defibering states of corrugated medium and linerboard pieces defibered in the pulper (1); and a fourth means for controlling the second means to exhaust defibered corrugated medium and pieces defibered from the pulper (1) by comparing the detected data with the estimated first and second target values respectively. The first means has a comparative consistency meter (5) and the apparatus further includes a level meter (4) to detect the level of the white water in the pulper (1).

WO 2004/020733 A1